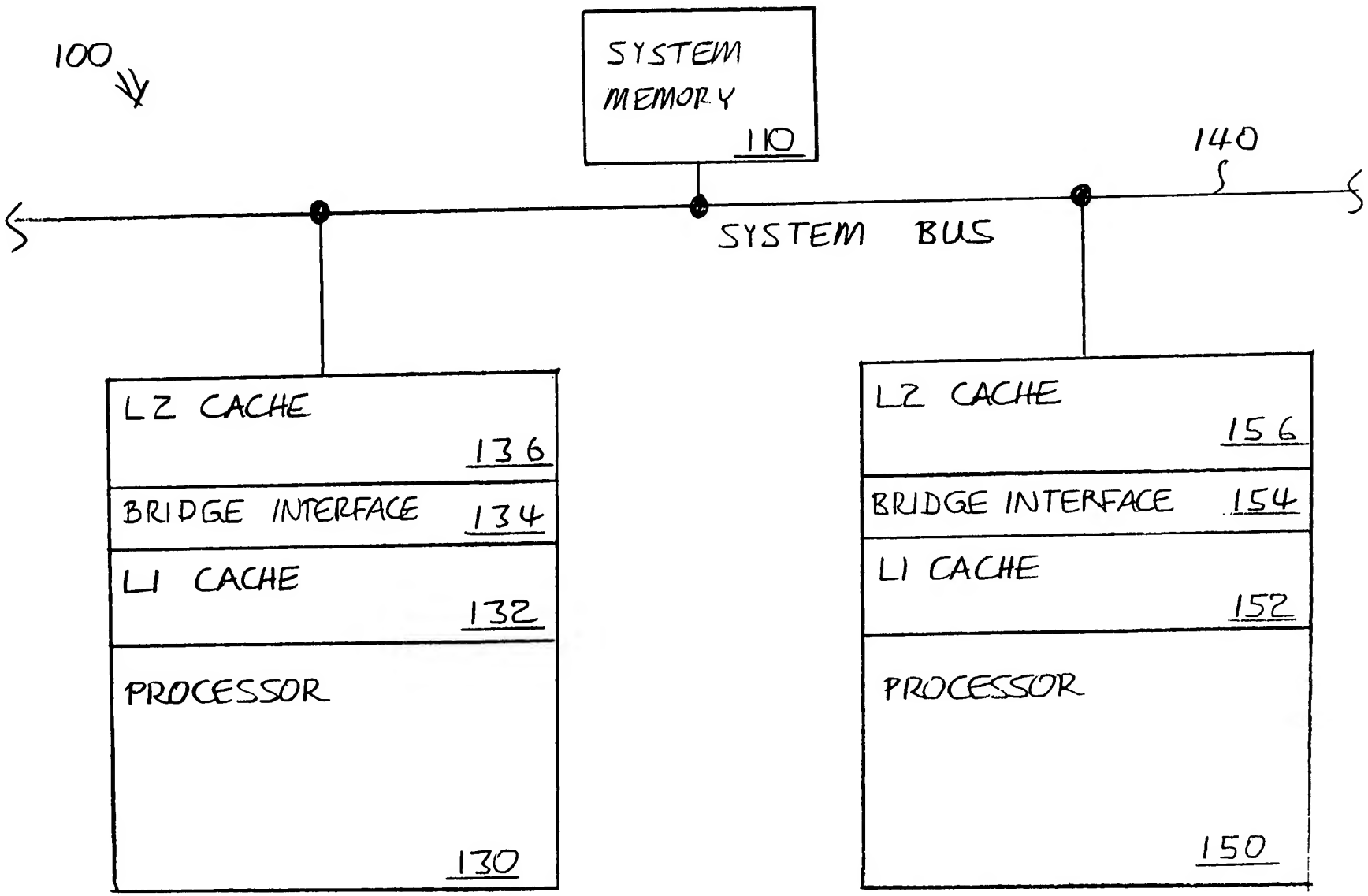
100
SYSTEM MEMORY
110
140
SYSTEM BUS
L2 CACHE
136
BRIDGE INTERFACE
134
L1 CACHE
132
PROCESSOR
130
L2 CACHE
156
BRIDGE INTERFACE
154
L1 CACHE
152
PROCESSOR
150

FIGURE 1

OUTER INTERFACE

M	M	M	MS	MI
E		E	ES	EI
S			S	SI
I				I
	M	E	S	I

INNER INTERFACE

FIGURE 2

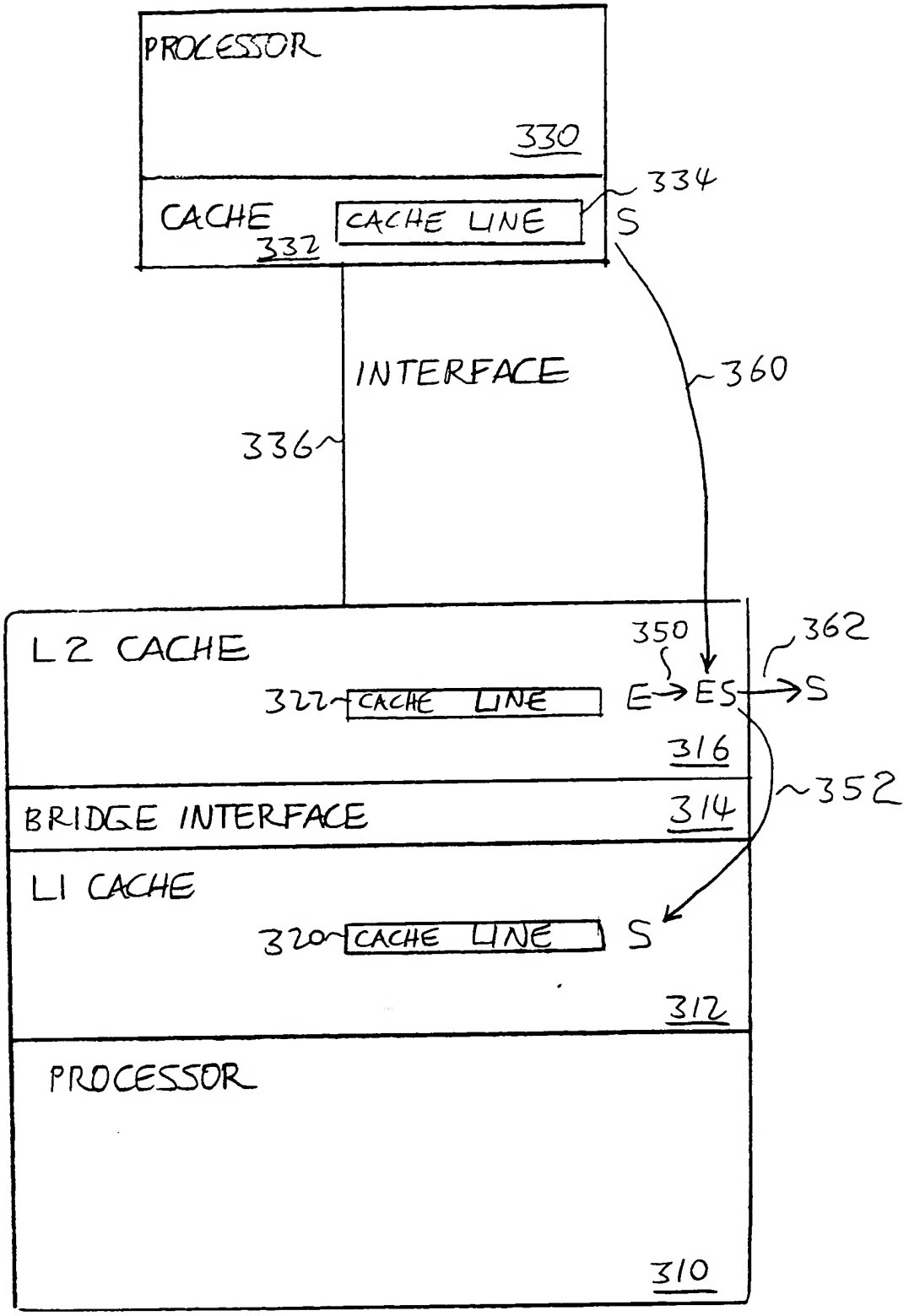
PROCESSOR
330
CACHE
332
CACHE LINE
334
S
INTERFACE
336
360
L2 CACHE
350
362
322
CACHE LINE
E
ES
S
316
BRIDGE INTERFACE
314
352
LI CACHE
320
CACHE LINE
S
312
PROCESSOR
310

FIGURE 3A

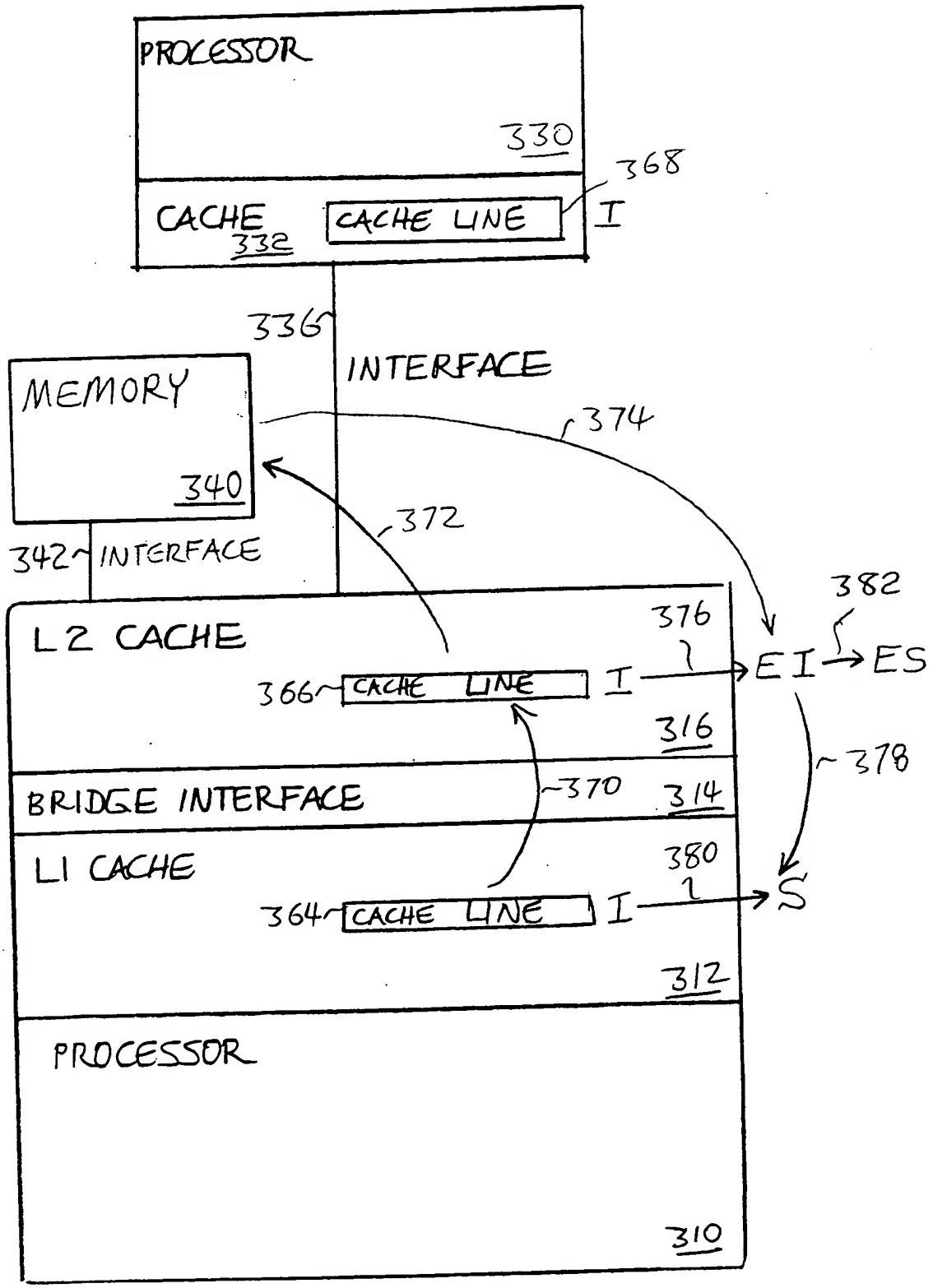
PROCESSOR
330
CACHE
332
CACHE LINE
368
I
336
INTERFACE
MEMORY
340
374
372
342
INTERFACE
L2 CACHE
376
382
366
CACHE LINE
I
EI
ES
316
378
BRIDGE INTERFACE
370
314
LI CACHE
380
364
CACHE LINE
I
S
312
PROCESSOR
310

FIGURE 3B

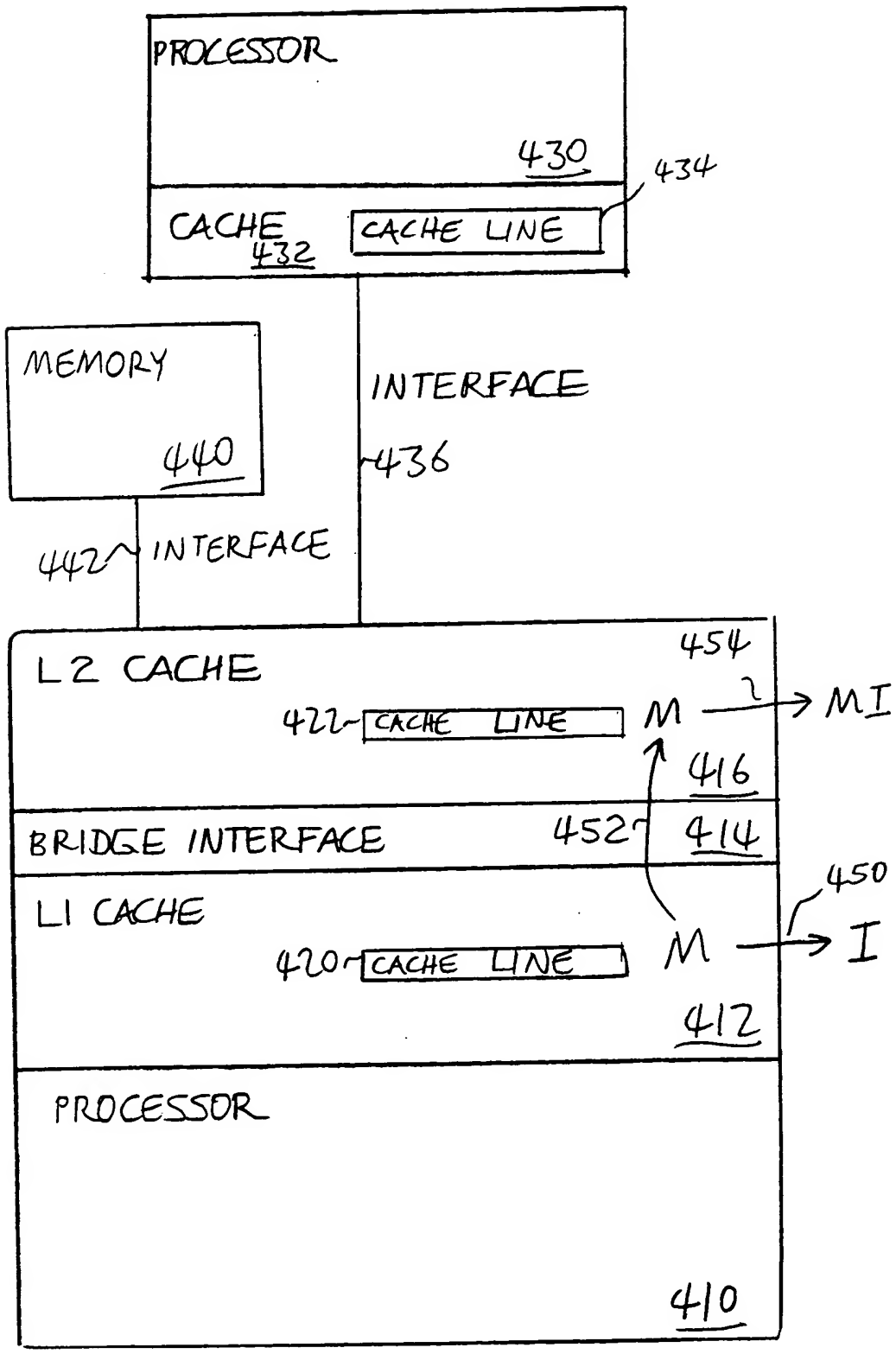
PROCESSOR
430
434
CACHE
432
CACHE LINE
MEMORY
440
INTERFACE
436
442
INTERFACE
454
L2 CACHE
422
CACHE LINE
M
MI
416
BRIDGE INTERFACE
452
414
450
LI CACHE
420
CACHE LINE
M
I
412
PROCESSOR
410

FIGURE 4

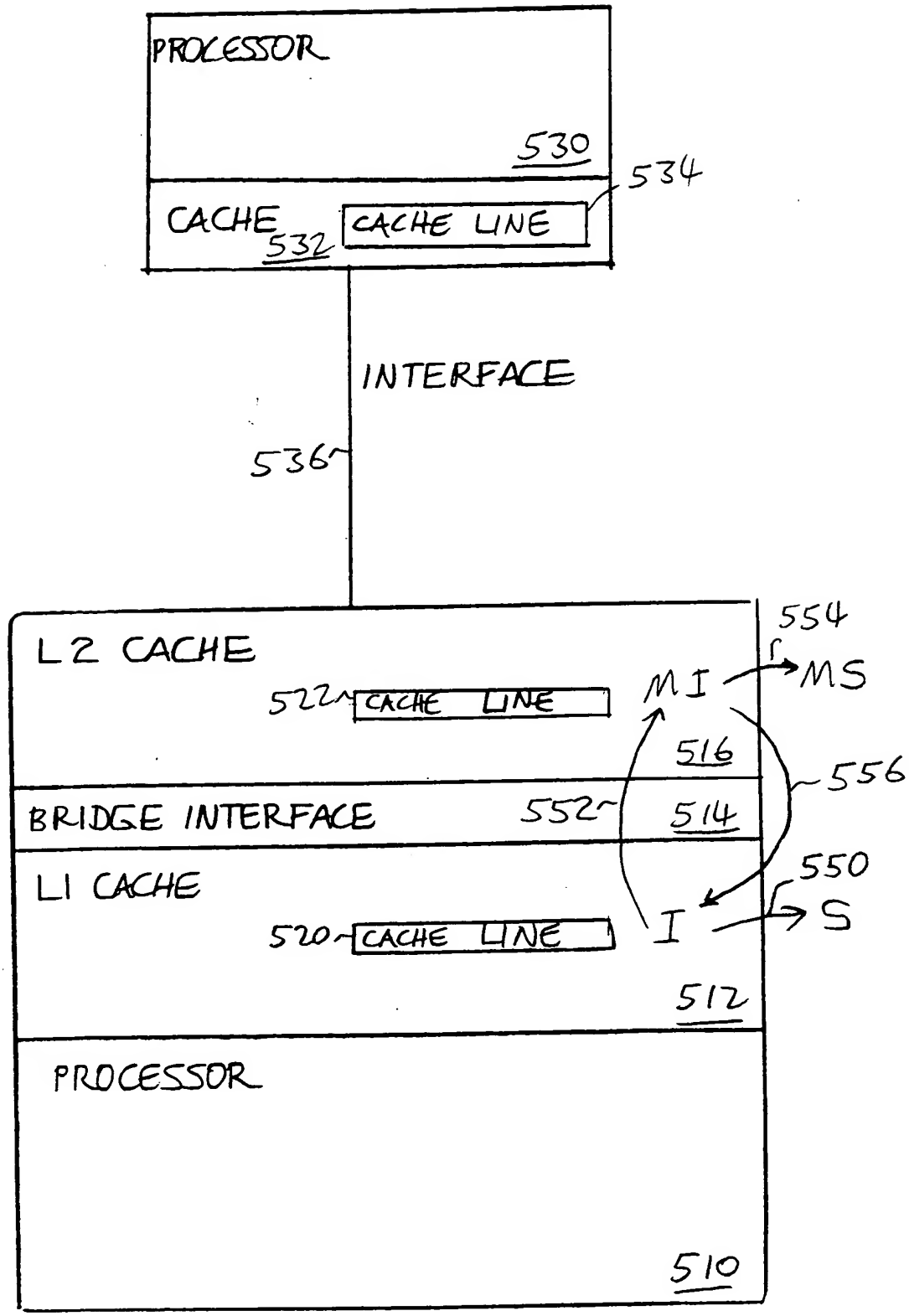
PROCESSOR
530
534
CACHE
532
CACHE LINE
INTERFACE
536
L2 CACHE
554
MS
MI
522
CACHE LINE
516
556
BRIDGE INTERFACE
552
514
LI CACHE
550
S
I
520
CACHE LINE
512
PROCESSOR
510

FIGURE 5

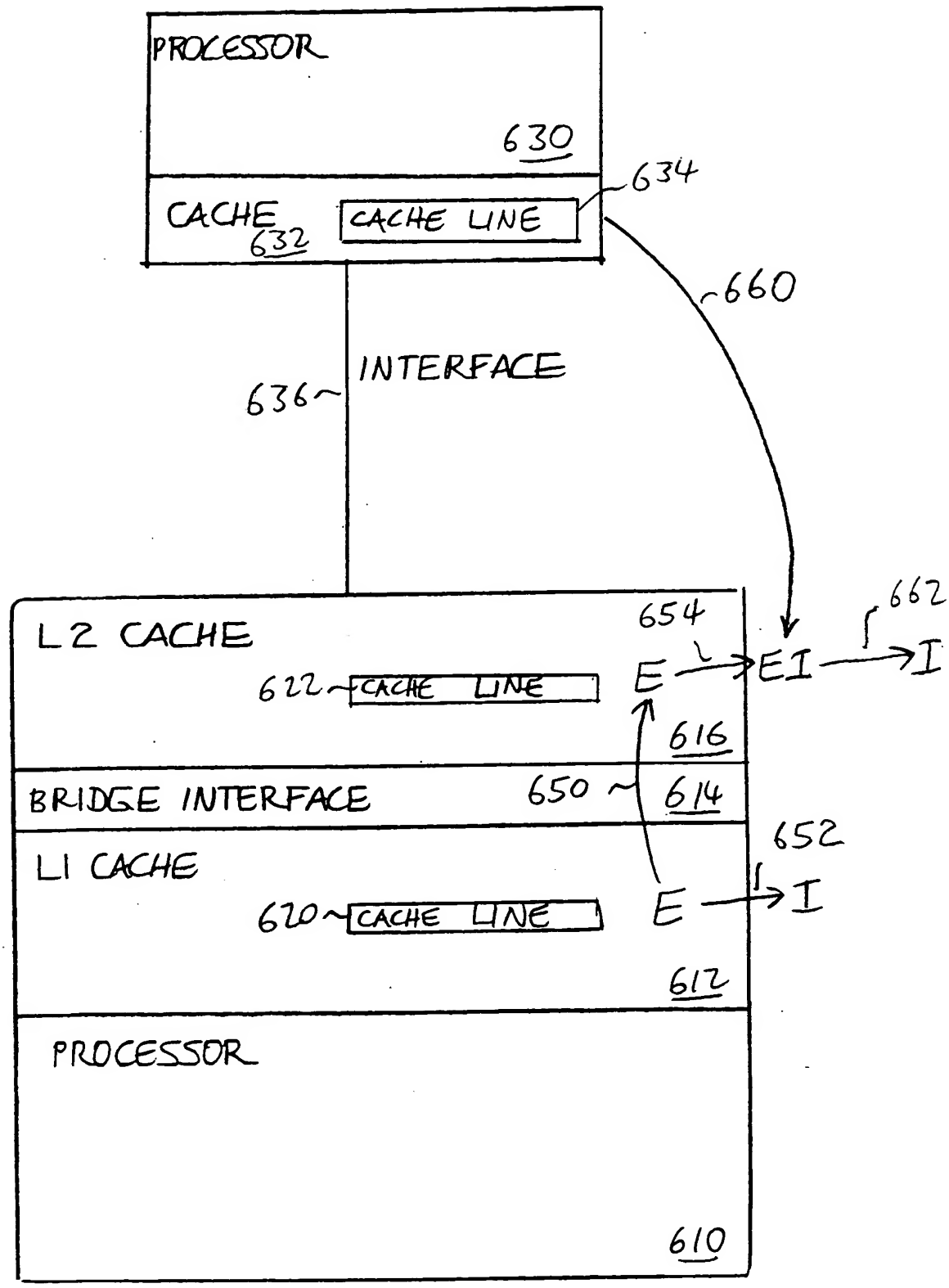
PROCESSOR
630
CACHE
632
CACHE LINE
634
660
636
INTERFACE
L2 CACHE
654
662
622
CACHE LINE
E
EI
I
616
BRIDGE INTERFACE
650
614
LI CACHE
652
620
CACHE LINE
E
I
612
PROCESSOR
610

FIGURE 6

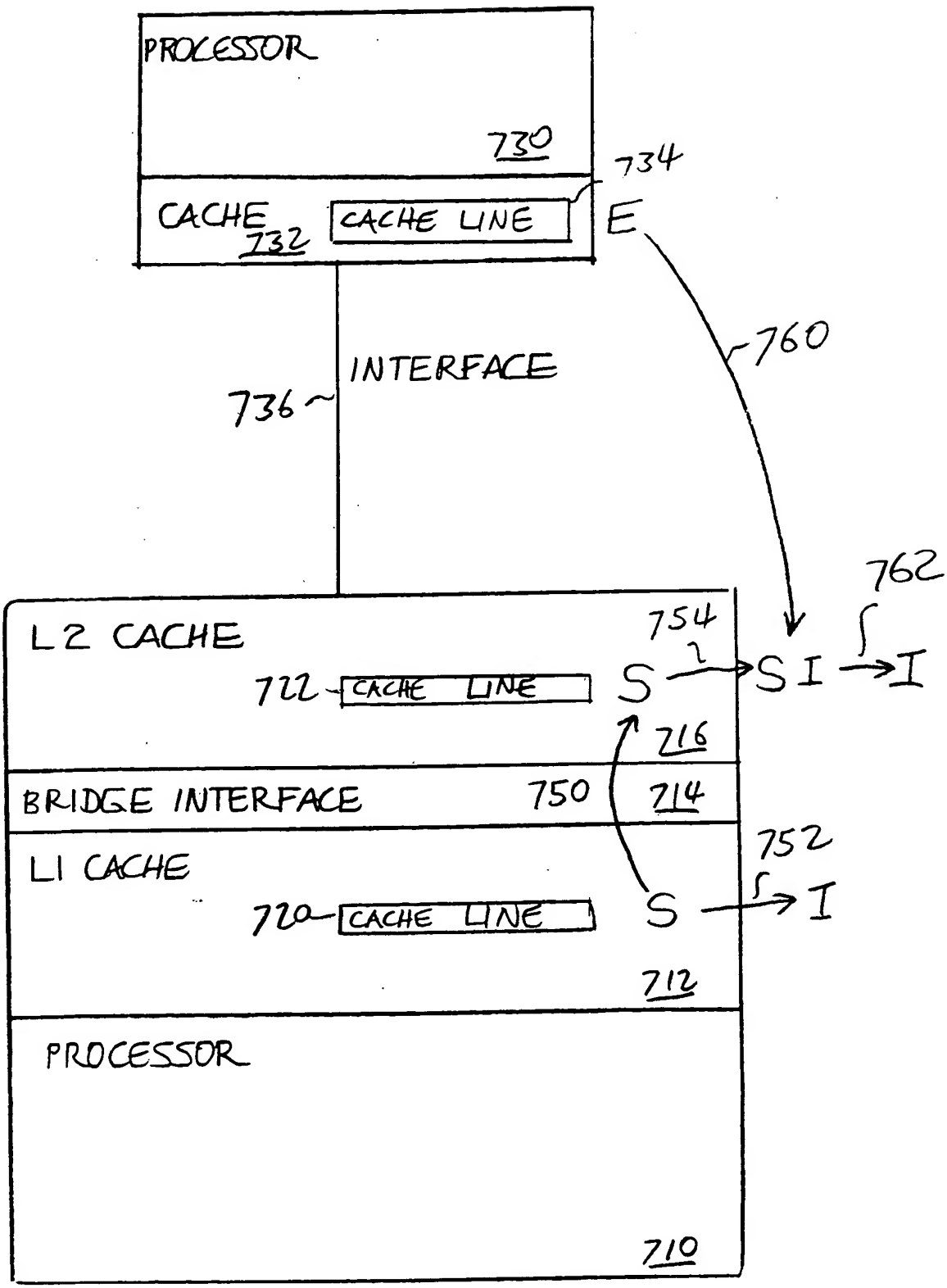
PROCESSOR
730
734
CACHE
732
CACHE LINE
E
760
INTERFACE
736
762
L2 CACHE
754
722
CACHE LINE
S
S I
I
716
BRIDGE INTERFACE
750
714
752
LI CACHE
720
CACHE LINE
S
I
712
PROCESSOR
710

FIGURE 7

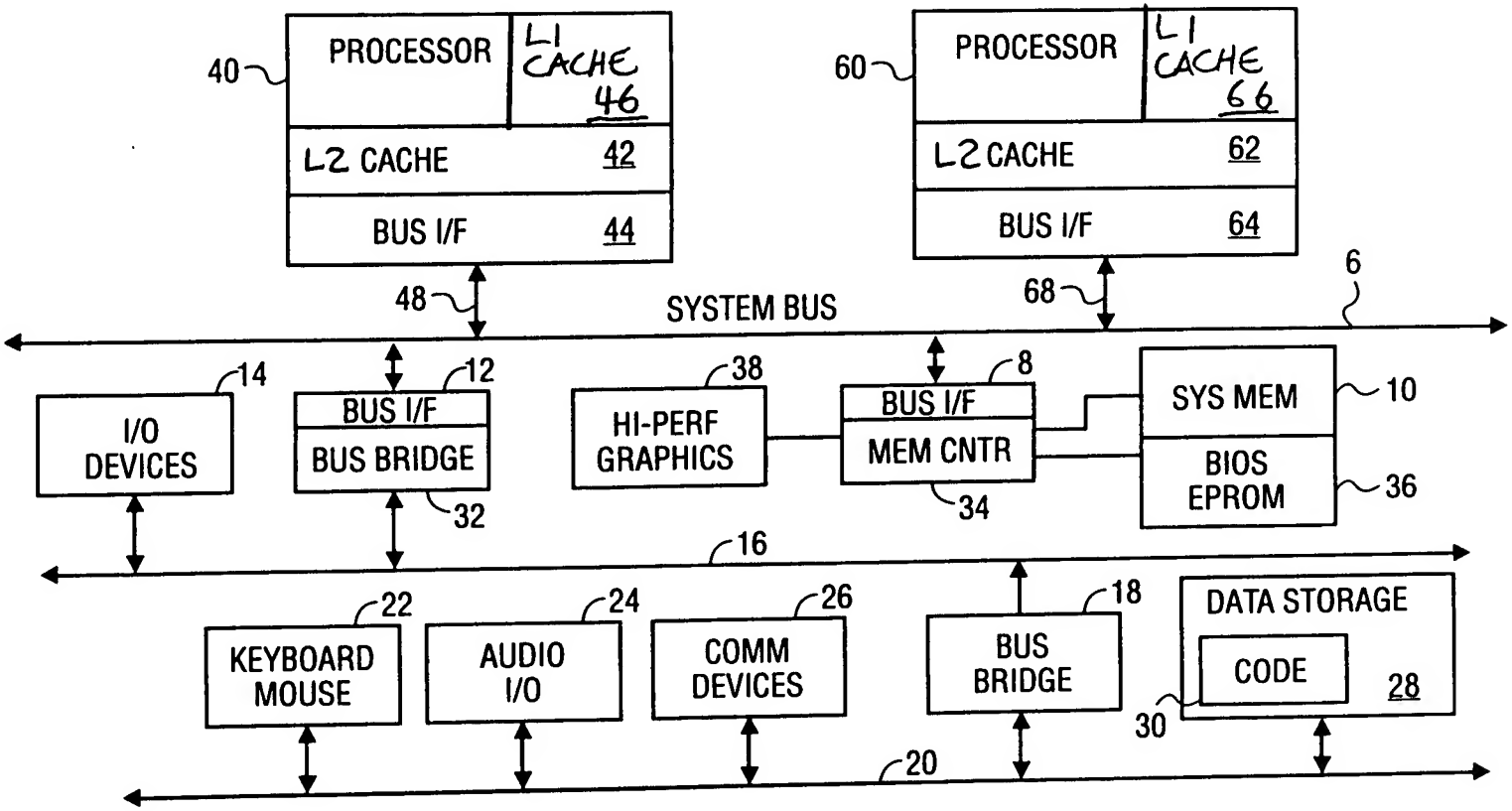
40
PROCESSOR
L1 CACHE 46
L2 CACHE 42
BUS I/F 44
60
PROCESSOR
L1 CACHE 66
L2 CACHE 62
BUS I/F 64
48
68
6
SYSTEM BUS
14
I/O DEVICES
12
BUS I/F
BUS BRIDGE
32
38
HI-PERF GRAPHICS
8
BUS I/F
MEM CNTR
34
SYS MEM
10
BIOS EPROM
36
16
22
KEYBOARD MOUSE
24
AUDIO I/O
26
COMM DEVICES
18
BUS BRIDGE
DATA STORAGE
CODE
28
30
20

FIG. 8